

# Russell Jennings

## AUGER BITS





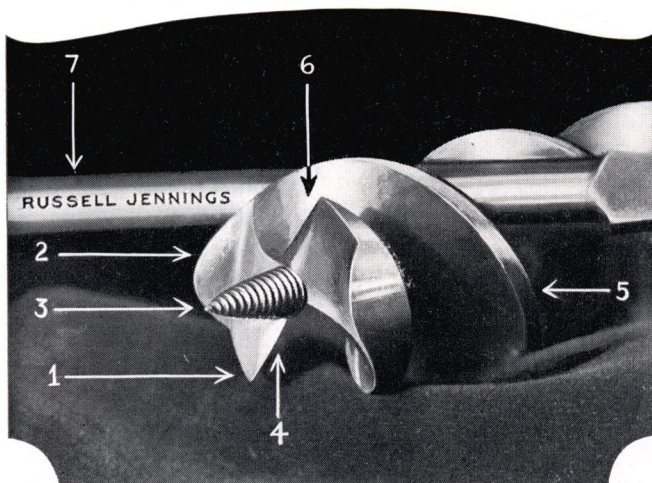


THE ORIGINAL

# *Russell Jennings*

## AUGER BITS

SINCE 1855



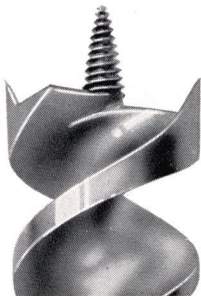
- 1—Extension lips (originated by Russell Jennings) hand-sharpened for quick cutting.
- 2—Hand-sharpened spurs, "miked" to compass-like accuracy.
- 3—The screw has clean threads that readily enter the wood and draw the bit after it. Located exactly in the center, assuring a clean-cut, circular hole.
- 4—High carbon, scientifically tempered steel for edges that will last.
- 5—Correct body taper, to avoid binding.
- 6—Throat carefully designed for chip clearance.
- 7—Full name always stamped on the round.

CATALOG No. 70

**THE RUSSELL JENNINGS MANUFACTURING CO.**  
CHESTER, CONN., U. S. A.

Printed in U. S. A.

# THE RUSSELL JENNINGS "EXTENSION LIP" PRINCIPLE



IN JANUARY, 1855, Russell Jennings patented the "extension lip" auger bit. It proved so vastly superior to any existing designs that it was accepted almost immediately. The demand continued to increase steadily, and today this type of bit is recognized as the standard throughout the entire world.

But, like many other articles of real merit, it has been imitated, both here and abroad. With some semblance of conscience, certain of the imitators have labeled their bits "Jennings Pattern," but others have gone so far in their efforts to mislead buyers as to use their own names in connection with the word "Jennings." We, therefore, suggest, in your own interest, that you caution your buying public to make sure that the full name "Russell Jennings" is stamped plainly on the round before they accept any bit as genuine. This full name "Russell Jennings" is registered in the United States Patent Office and can not legally appear on any other make of bit.

## How Russell Jennings Bits Are Made

The manufacturer of a good auger bit requires steel made to special analysis, and, in order to get uniform temper, this analysis must be kept uniform. All Russell Jennings bits are made of genuine tool steel of a special analysis which we have developed over a long period of manufacturing. Steel for bits is never purchased from stock on the open market. The steel we use in our bits is high in carbon, which means that we do not sacrifice wearing qualities in our bits in order to save wear on dies and cutters. A softer steel could be more easily worked, but if we used it, our bits would not have their present long edge-life.

The forging of a fine bit is an art in itself. It must be done with supreme care, so as to be sure of maintaining uniform density in the forging. The steel must not be cooled suddenly nor burned. In forming the head—the "business end"—of the bit, the utmost precaution must be exercised to gain all possible strength at this point. To make sure of this, every Russell Jennings Auger Bit is individually tested by driving it into a block of tough hickory.



# "BUSINESS END" OF THE RUSSELL JENNINGS BIT

The screw thread is responsible for easy, accurate boring in wood. When clean-cut and of proper pitch, it will draw the bit into the wood without forcing.

Fig. 1—Russell Jennings *Standard Double Thread Point*. Unsurpassed for accurate work in seasoned soft wood. Preferred by most cabinet makers.

Fig. 2—Russell Jennings *Single Thread Point*. Designed for quick boring. Takes a strong hold in the wood and does not clog in very gummy wood. Draws a bit rapidly and easily into extremely hard wood. Especially suited for the work of electricians and plumbers.

Fig. 3—Russell Jennings *Square Point*. Sometimes called a "Diamond" Point. Used exclusively for machine boring under forced feed.

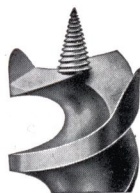


Fig. 1



Fig. 2

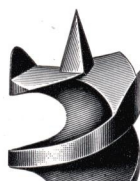


Fig. 3

Choice of the type of screw point is important always. Screw points have differences like the teeth of saws. A cross-cut saw may be used with the grain, but it cuts slowly. An auger bit with a double thread can be used for practically all work, but it bores more slowly than a bit with a coarse, single thread point. The quick-boring type is simply the standard auger bit, the point of which has the threads wider apart.

The screw is located exactly in the center between the two spurs. This means that when the bit turns, one spur will "track" the other, producing a circular cut of the marked size.

## To the Hardware Trade

This catalog and price list covers our complete line, and has been prepared to assist you in supplying your customers with the different kinds of bits we manufacture. You may find that some of the lists differ from those in previous catalogs. Under each list, we give the sizes *carried in stock*, and it is our aim to keep this stock up at all times, in order to be able to fill your orders promptly and correctly.

All bits above 32/16, or larger than the highest size listed under any Figure Number, are special sizes.

Bits not carried in stock, or special sizes, or different lengths of twist, or length or diameter of shank, will be made to order. Prices for such special bits will be gladly quoted on application.

It is, and always has been, our rule to place on the market only superior goods made from tool steel of our own special analysis. This means that we must make every effort to maintain the highest possible level of uniform quality. As previously explained, every bit is inspected and thoroughly tested before leaving the factory. Our prices are as low as is consistent with quality and finish and a fair manufacturer's profit.

We advise retail dealers to buy from jobbers, thus saving trouble and freight; but, should you have difficulty in obtaining anything shown in this catalog, write us and we will gladly arrange a nearby source of supply. When ordering machine bits, always give length of twist and length and diameter of shank, at the same time referring to the Figure Number. An index is placed in the back of this catalog to save your time in locating the bits you wish.



# Standard Bits for Hand Braces

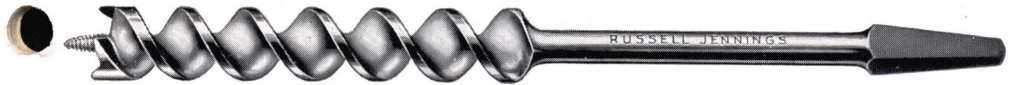


Fig. 100—Double Thread Point



Fig. 101—Single Thread Point

Fig. 100, with double thread screw point, bores easily and cuts a smooth hole. It is recommended for general use, and is an especial favorite with cabinet makers.

Fig. 101 is exactly like Fig. 100, except that it has the coarse, single thread on the point for rapid boring. It is recommended for ordinary boring in soft wood, and is particularly effective in gummy woods because the thread will not clog. Not advised for use in cabinet work, nor where ease of boring and smoothness of hole are essentials.

## LIST PRICES Figs. 100, 101

Size in 16ths,	3	4	5	6	7
Price per doz.,	12.00	10.00	10.00	10.00	10.00
Size in 16ths,	8	9	10	11	12
Price per doz.,	10.00	12.00	12.00	14.00	14.00
Size in 16ths,	13	14	15	16	17
Price per doz.,	16.50	16.50	19.00	19.00	24.00
Size in 16ths,	18	19	20	21	22
Price per doz.,	24.00	28.00	28.00	32.00	32.00
Size in 16ths,	23	24	25	26	27
Price per doz.,	36.00	36.00	42.00	42.00	48.00
Size in 16ths,	28	29	30	31	32
Price per doz.,	48.00	54.00	54.00	60.00	60.00

Length over all varies from 8½ to 10 inches, according to the size. Sizes in 32ds from 7/32 to 31/32 take the price of the next larger size.

**CARRIED IN STOCK:** Fig. 100 in 3/16 to 16/16 inclusive by 32ds and in 16/16 to 32/16 inclusive by 16ths; Fig. 101 in 3/16 to 32/16 inclusive by 16ths. Either type packed in dozens up to 12/16; above 12/16 in half dozens. Standard extension lip auger bits are not carried in stock by 32ds above 31/32, nor in 16ths above 32/16, but can be supplied promptly on order at special prices, depending on the number of a size ordered.

# Bits for Electricians and Plumbers



These special-design bits, with single spur and cutter and coarse thread screw, bore smooth, accurate holes with surprising rapidity. Of fine high carbon steel, they have long edge life. The saving of time usually spent in sharpening and keeping other bits in shape makes up for the slight extra cost many times over—to say nothing of the ease of operation. Complete assortment of sizes and lengths carried in stock.

Fig. L-101E—Length over all, 10½ inches.

Sizes in 16ths	10	11	12
List per doz.	\$12.00	14.00	14.00



Fig. J-101E—Length over all, 9½ inches.

Sizes in 16ths	10	11	12	13	14	15
List per doz.	\$12.00	14.00	14.00	16.50	16.50	19.00
Sizes in 16ths	16	18	20	22	24	28
List per doz.	19.00	24.00	\$28.00	32.00	36.00	48.00



Fig. J-101S—Length over all, 6½ inches.

Sizes in 16ths	12	13	14	15
List per doz.	\$14.00	16.50	16.50	19.00

J-101E and J-101S are used extensively by plumbers.

## Scotch Pattern Bits



Fig. 122

Sizes in 16ths	10	11	12
List per doz.	\$12.00	14.00	14.00

A special bit for boring in hard, tropical woods; also very effective for boring the end grain of domestic soft woods and the end and cross grain of domestic hard woods. An easy bit to keep in shape.



# Auger Bit Sets

## IN HARDWOOD BOXES



Unless otherwise specified, the standard double thread bits will be furnished on all orders for sets.

The quick-boring thread will be furnished at the same price, if so specified in the order.

### 32½ Quarters

This set, in three-section hardwood box, as illustrated above, consists of thirteen bits (one each 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 and 16 sixteenths.)

LIST PRICE, \$17.00

**22½ QUARTERS**—This set consists of eleven bits; nine of them having our standard double thread (one each, 4, 5, 6, 7, 8, 9, 10, 11, and 12 sixteenths), and the other two (one each 8 and 10, sixteenths), the sizes generally used for mortising doors, having our quick-boring thread.

LIST PRICE, \$12.95

**20½ QUARTERS**—This set consists of nine bits (one each 4, 5, 6, 7, 8, 10, 12, 14, and 16 sixteenths) and gives a range of sizes from ¼" to 1" by eighths, with 5-16" and 7-16" added.

LIST PRICE, \$11.80

**18 QUARTERS**—This set consists of nine bits (one each 4, 5, 6, 7, 8, 9, 10, 11 and 12 sixteenths) and gives a full range of sizes from ¼" to ¾" by sixteenths.

LIST PRICE, \$11.00

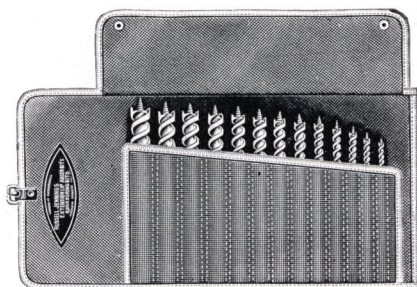
**17½ QUARTERS**—This set consists of seven bits (one each 4, 6, 8, 10, 12, 14 and 16 sixteenths) and gives a range of sizes from ¼" to 1" by eighths.

LIST PRICE, \$9.50



# Auger Bit Sets

## IN CANVAS ROLLS



Unless otherwise specified, the standard double thread bits will be furnished on all orders for sets.

The quick-boring thread will be furnished at the same price, if so specified in the order.

### 32½ Quarters

This set consists of thirteen bits 4-16" to 16 sixteenths inclusive, in our specially designed canvas roll, which is shown above.

**LIST PRICE, \$16.00**



**22½ QUARTERS**—This set consists of eleven bits; nine of them having our standard double thread (one each, 4, 5, 6, 7, 8, 9, 10, 11 and 12 sixteenths), and the other two (one each 8 and 10, sixteenths), the sizes generally used for mortising doors, having our quick-boring thread.

**LIST PRICE, \$12.00**

**20½ QUARTERS**—This set consists of nine bits (one each 4, 5, 6, 7, 8, 10, 12, 14 and 16 sixteenths) and gives a range of sizes from ¼" to 1" by eighths, with 5-16" and 7-16" added.

**LIST PRICE, \$11.00**

**18 QUARTERS**—This set consists of nine bits (one each 4, 5, 6, 7, 8, 9, 10, 11 and 12 sixteenths) and gives a full range of sizes from ¼" to ¾" by sixteenths.

**LIST PRICE, \$10.00**

**17½ QUARTERS**—This set consists of seven bits (one each 4, 6, 8, 10, 12, 14 and 16 sixteenths) and gives a range of sizes from ¼" to 1" by eighths.

**LIST PRICE, \$9.20**





# Long Dowel Bit



Fig. 102

This particular bit, while designed essentially for boring holes to receive dowel pins, is ideal for use wherever a bit shorter than standard would be more advantageous.

## LIST PRICES

Size in 16ths,	3	4	5	6	7	8
Price per doz.,	12.00	10.00	10.00	10.00	10.00	10.00
Size in 16ths,	9	10	11	12	13	14
Price per doz.,	12.00	12.00	14.00	14.00	16.50	16.50
Size in 16ths,	15		16			
Price per doz.,	19.00		19.00			

Length over all varies from 4½ to 5 inches, according to the size, as follows: 3/16 to 8/16 inclusive, 4½ inches—9/16 to 16/16 inclusive, 5 inches.

CARRIED IN STOCK: 3/16 to 12/16 by 32ds, and 12/16 to 16/16 by 16ths.

# Bit for Electric Drill

¼ inch Shank



Fig. 100-ED

## LIST PRICES

Size in 16ths,	4	5	6	7	8	9	10
Price per doz.,	13.60	13.60	13.60	13.60	13.60	15.60	15.60
Size in 16ths,	11	12	13	14	15	16	
Price per doz.,	17.60	17.60	20.10	20.10	22.60	22.60	

## Extension Lip Plug Bit

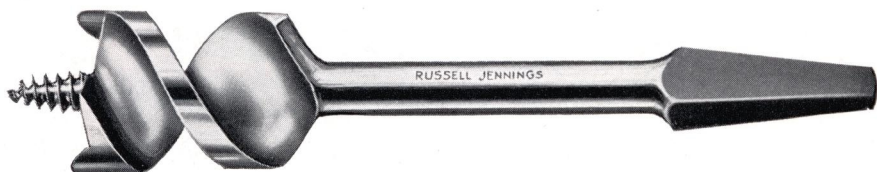


Fig. 105

Length over all, 6 inches

### LIST PRICES

Size in 16ths,	16	18	20	22	23
Price per doz.,	\$19.00	24.00	28.00	32.00	36.00
Size in 16ths,	24	26	28	30	32
Price per doz.,	36.00	\$42.00	48.00	54.00	60.00

Length over all, 6 inches.

CARRIED IN STOCK in 16ths only.

## Extension Lip Screw Plug Bit



Fig. 107

Length over all, 6 inches

### LIST PRICES

Size in 16ths,	8	10	12	14	16
Price per doz.,	\$20.00	20.00	24.00	28.00	32.00
Size in 16ths,	18	20	22	24	
Price per doz.,	36.00	40.00	44.00	48.00	
Size in 16ths,	26	28	30	32	
Price per doz.,	54.00	60.00	66.00	72.00	

Extra for threading, \$4.00 per dozen net.

Extension Lip Screw Plug Bits are special bits and are not carried in stock.

In ordering Screw Plug Bits, be sure to state the length and diameter of the plug end, and what standard U. S. thread is wanted.



# Car Bits

Used by Electricians and Linemen  
And Wherever Heavy Timbers Are Bored

**Fig. 200**

Length of twist, 12 inches;  
length over all, 20 inches  
Full Polished. Double Thread

## LIST PRICES

Size in 16ths,	4	5	6	7	8
Price per doz.,	16.80	16.80	16.80	16.80	16.80
Size in 16ths,	9	10	11	12	13
Price per doz.,	18.72	20.64	22.44	24.36	26.25
Size in 16ths,	14	15	16	17	18
Price per doz.,	28.50	30.75	33.00	36.00	39.00
Size in 16ths,	19	20	21	22	23
Price per doz.,	42.00	45.00	48.00	51.00	54.00
Size in 16ths,	24	26	28	30	32
Price per doz.,	57.00	63.00	69.00	75.00	81.00

**Fig. 201**

Length of twist, 8 inches;  
length over all, 12 inches  
Single Thread

## LIST PRICES

Size in 16ths,	4	5	6	7	8
Price per doz.,	12.36	12.36	12.36	12.36	12.36
Size in 16ths,	9	10	11	12	13
Price per doz.,	15.00	15.00	17.28	17.28	20.28
Size in 16ths,	14		15		16
Price per doz.,	20.28		22.50		22.50

**Fig. 202**

Length of twist, 12 inches;  
length over all, 18 inches  
Single Thread

## LIST PRICES

Size in 16ths,	4	5	6	7	8
Price per doz.,	16.80	16.80	16.80	16.80	16.80
Size in 16ths,	9	10	11	12	13
Price per doz.,	18.72	20.64	22.44	24.36	26.25
Size in 16ths,	14	15	16	18	20
Price per doz.,	28.50	30.75	33.00	39.00	45.00

**Fig. 201**

**Fig. 202**

CARRIED IN  
STOCK

**Fig. 200**

4/16 to 32/16  
Inclusive

**Fig. 201**

4/16 to 16/16  
Inclusive

**Fig. 202**

4/16 to 20/16  
Inclusive

Car bits will be  
supplied in  
standard lengths  
given above if  
lengths are not  
specified on  
the order.

**Fig. 200**

# NOTE THIS HEAD!

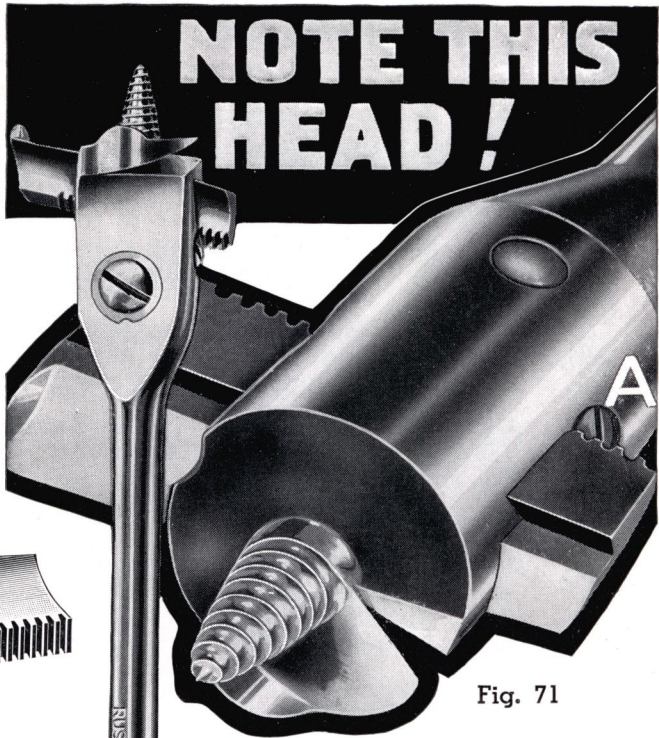


Fig. 71

## Expansive Bit

**S**TRONGEST expansive bit made. Cutter is not clamped to outside of head, but racks back and forth *through* the head, hence can not spring away from the head and fall off.

Here is an accurate screw adjustment, not a sliding scale. One complete turn of screw-driver inserted at "A" (above) enlarges hole  $\frac{1}{8}$  inch, one half turn  $\frac{1}{16}$  inch, etc. This, with the solid head construction, permits use of cutter fully extended; and, there being no crevices, there is no clogging. Comes equipped with two sizes of cutters; see Figs. 72 and 73.

LIST PRICE, Fig. 71, \$54.00 Per Doz.

### EXTRA PARTS

#### List Prices Per Doz.

Fig. 72	Large Cutter	\$13.20
Fig. 73	Small Cutter	10.80
Fig. 74	Adjusting Screw	2.40
Fig. 75	Clamping Screw	1.68
Fig. 76	Beveled Washer	2.88

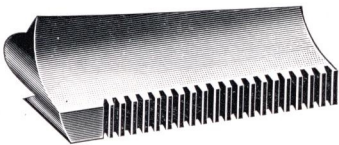


Fig. 72  
Large Cutter  
 $1\frac{1}{2}$  to  $2\frac{1}{2}$  inch



Fig. 73  
Small Cutter  
 $\frac{7}{8}$  to  $1\frac{1}{2}$  inch



Fig. 74  
Adjusting Screw



Fig. 75  
Clamping Screw



Fig. 76  
Beveled Washer



# Information About Machine Bits

For the convenience of our many customers in industry, we wish to emphasize certain important points about Russell Jennings Machine Bits, as follows:

*Machine Dowels* will be found in the auger bit list.

*Turned Shanks*—Machine bits with turned shanks are listed in accordance with the Manufacturers' Standard price list for machine bits.

*Stock Bits*—This catalog contains the complete assortment of Russell Jennings machine bits carried in stock. We urge our customers to use these stock bits wherever possible. For reasons which you as a manufacturer can fully appreciate, bits not regularly in stock must carry special prices, determined by the number and sizes ordered.

*Screw Points*—Our standard double-thread screw point gives the best results on general work, and will be furnished unless otherwise specified. However, in many cases a special thread or point will be of material help in meeting certain requirements. If you will state the nature of your work, or describe the difficulties you are having with the bits you are using, we shall be glad to place at your disposal the experience of our experimental department. This department is fully equipped to determine the relative efficiencies of our bits in various kinds of woods, as well as the best speeds and methods of feeding into the wood. Bits with special points can not always be furnished immediately out of stock, but bits of standard dimensions can be supplied with other screw points within a few days. In this connection, permit us to caution you to

## WATCH MACHINE SPEEDS!

In almost all of the cases where bit users have trouble from excessive breakage, it is due to excessive speed.

No bit should be run at too high speed.

Sure proof of excessive speed is the coloring of the bit to **STRAW** or **BLUE**. This indicates that the temper has been drawn, and all too often that the bit is ruined! We can not guarantee a bit if run at too high R. P. M., or if run without having been **PROPERLY CENTERED**. For your own protection, then, please impress upon your customers these two don'ts:

**DON'T** speed up your machines too high,

**DON'T** run your bits off center.

# Square Shank Machine Dowel Bits



**Fig. 305**

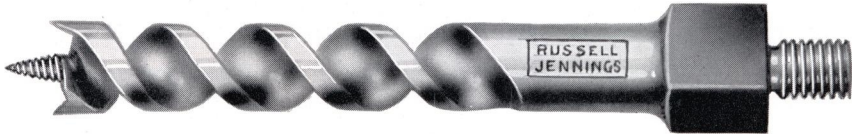
Length,  $3\frac{1}{2}$  inches over all

Threaded either 5/16 No. 20 or 7/16 No. 14

## LIST PRICES

Size in 16ths,	3	4	5	6	7	8
Price per doz.,	12.00	10.00	10.00	10.00	10.00	10.00

CARRIED IN STOCK: 3/16 to 8/16 inclusive by 16ths.  
Also carried in sizes 25/64ths and 29/64ths.



**Fig. 308**

Length,  $4\frac{1}{2}$  inches over all

Thread on shank, 5/16 inch dia., 20 Threads per inch



**Fig. 309**

Length,  $4\frac{1}{2}$  inches over all

Thread on shank, 7/16 inch dia., 14 Threads per inch

## LIST PRICES—Figs. 308, 309 (Single or Double Thread Points)

Size in 16ths,	3	4	5	6	7
Price per doz.,	12.00	10.00	10.00	10.00	10.00
Size in 16ths,	8	9	10	11	12
Price per doz.,	10.00	12.00	12.00	14.00	14.00
Size in 16ths,	13	14	15	16	17
Price per doz.,	16.50	16.50	19.00	19.00	24.00
Size in 16ths,	18	19	20		
Price per doz.,	24.00	28.00	28.00		

CARRIED IN STOCK: 3/16 to 9/16 by 32ds—9/16 to 20/16 by 16ths and 25/64 and 29/64. Special sizes to order. Extra charge for threading shanks, \$1.50 per doz. net per  $\frac{1}{2}$  inch. Sizes under 4/16 take list price of 3/16.

# Machine Dowel Bits



Fig. 300

## SHORT MACHINE DOWEL BIT

Length of twist,  $1\frac{1}{8}$  inches. Shank,  $1\frac{1}{8}$  x  $\frac{5}{16}$  inches. Shanks turned and centered.

CARRIED IN STOCK in following sizes:

In 16ths—3-4-5-6-7 and 8/16

In 32ds—7-9-11-13 and 15/32

In 64ths—13-15-17-19-21 and 23/64

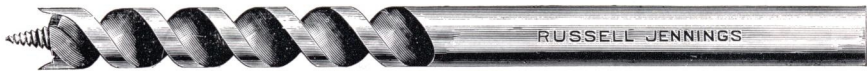


Fig. 301

## LONG MACHINE DOWEL BIT

Length of twist, 2 inches. Shank,  $2\frac{1}{4}$  x  $\frac{5}{16}$  inches.

This particular bit is carried with standard double thread and also with coarse single thread point. Double thread furnished unless otherwise specified. Shanks turned and centered.

CARRIED IN STOCK:  $\frac{3}{16}$  to  $\frac{9}{16}$  by 32ds;  $\frac{9}{16}$  to  $\frac{16}{16}$  by 16ths, in double thread only.

### LIST PRICES

Figs. 300, 301

Size in 16ths,	3	4	5	6	7
Price per doz.,	12.00	10.00	10.00	10.00	10.00
Size in 16ths,	8	9	10	11	12
Price per doz.,	10.00	12.00	12.00	14.00	14.00
Size in 16ths,	13	14	15	16	
Price per doz.,	16.50	16.50	19.00	19.00	

List price of any size under  $\frac{4}{16}$ , \$12.00 per doz.



## Turned Shank Machine Bits

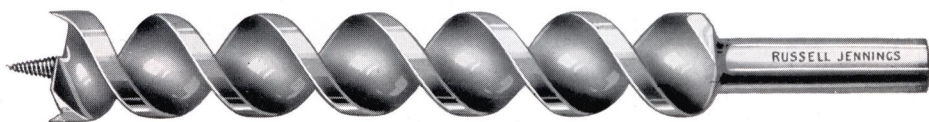


Fig. 311

Length of twist, 2 inches; Turned shank, 2 x ½ inches.

CARRIED IN STOCK: 3/16 to 16/16 by 16ths.

Fig. 312

Length of twist, 2½ inches; Turned shank, 2 x ½ inches.

CARRIED IN STOCK: 3/16 to 13/16 by 16ths.

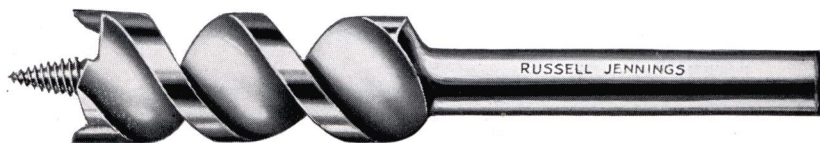


Fig. 313

Length of twist, 3 inches; Turned shank, 2 x ½ inches.

CARRIED IN STOCK: 3/16 to 24/16 by 16ths.

Fig. 315

Length of twist, 4 inches; Turned shank, 2 x ½ inches.

CARRIED IN STOCK: 3/16 to 17/16 by 32ds. 17/16 to 32/16 by 16ths.

Fig. 316

Length of twist, 5 inches; Turned shank, 2 x ½ inches.

CARRIED IN STOCK: 3/16 to 32/16 by 16ths.

Fig. 317

Length of twist, 6 inches; Turned shank, 2 x ½ inches.

CARRIED IN STOCK: 3/16 to 17/16 by 32ds. 17/16 to 32/16 by 16ths.

The shanks of all the above bits are accurately turned and centered—ready for use in either single or gang boring.

# Turned Shank Machine Bits

## LIST PRICES

Figs. 311, 312, 313, 315, 316, 317

(Twists up to 6 inches inclusive)

Size in 16ths,	3	4	5	6	7
Price per doz.,	10.80	10.80	10.80	10.80	10.80
Size in 16ths,	8	9	10	11	12
Price per doz.,	10.80	12.00	13.20	14.40	15.60
Size in 16ths,	13	14	15	16	17
Price per doz.,	16.80	18.00	19.20	20.40	21.60
Size in 16ths,	18	19	20	21	22
Price per doz.,	22.80	24.00	25.20	26.40	27.60
Size in 16ths,	23	24	25	26	27
Price per doz.,	28.80	30.00	31.50	33.00	34.50
Size in 16ths,	28	29	30	31	32
Price per doz.,	36.00	37.50	39.00	40.50	42.00

List prices of intermediate sizes the same as the next regular size larger.

When ordering machine bits, always give length and diameter of twist and length and diameter of shank, referring at same time to the Figure Number.

# Turned Shank Machine Bits

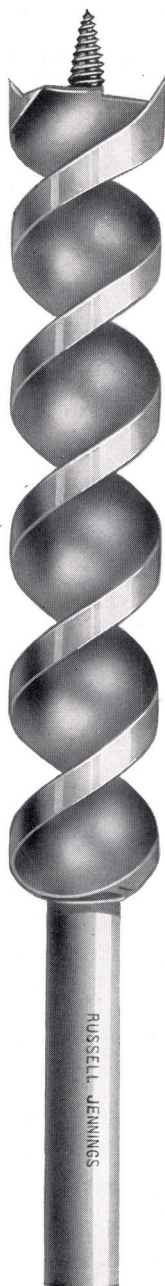


Fig. 318

Fig. 318

Length of twist, 7 inches  
Turned Shank, 2 x 1/2 inches

Fig. 319

Length of twist, 8 inches  
Turned Shank, 2 x 1/2 inches

## LIST PRICES

Figs. 318, 319

Size in 16ths,	4	5	6	7	
Price per doz.,	12.96	12.96	12.96	12.96	
Size in 16ths,	8	9	10	11	12
Price per doz.,	12.96	14.40	15.84	17.28	18.72
Size in 16ths,	13	14	15	16	17
Price per doz.,	20.16	21.60	23.04	24.48	25.92
Size in 16ths,	18	19	20	21	22
Price per doz.,	27.36	28.80	30.24	31.68	33.12
Size in 16ths,	23	24	25	26	27
Price per doz.,	34.56	36.00	37.80	39.60	41.40
Size in 16ths,	28	29	30	31	32
Price per doz.,	43.20	45.00	46.80	48.60	50.40

CARRIED IN STOCK: 4/16 to 32/16  
inclusive by 16ths.



Fig. 319



# Turned Shank Machine Bits

## LIST PRICES

Fig. 320

Length of twist, 10 inches;  
turned shank, 2 x ½ inches

Size in 16ths,	4	5	6	7	8	
Price per doz.,	15.12	15.12	15.12	15.12	15.12	
Size in 16ths,	9	10	11	12	13	14
Price per doz.,	16.80	18.48	20.16	21.84	23.52	25.20
Size in 16ths,	15	16	17	18	19	20
Price per doz.,	26.88	28.56	30.24	31.92	33.60	35.28
Size in 16ths,	21	22	23	24	25	26
Price per doz.,	36.96	38.64	40.32	42.00	44.10	46.20
Size in 16ths,	27	28	29	30	31	32
Price per doz.,	48.30	50.40	52.50	54.60	56.70	58.80

CARRIED IN STOCK: 4/16 to 32/16 by 16ths.

## LIST PRICES

Fig. 321

Length of twist, 12 inches;  
turned shank, 2 x ½ inches

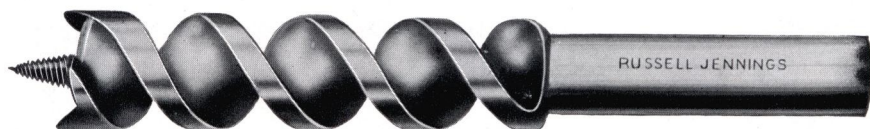
Size in 16ths,	4	5	6	7	8	
Price per doz.,	17.28	17.28	17.28	17.28	17.28	
Size in 16ths,	9	10	11	12	13	14
Price per doz.,	19.20	21.12	23.04	24.96	26.88	28.80
Size in 16ths,	15	16	17	18	19	20
Price per doz.,	30.72	32.64	34.56	36.48	38.40	40.32
Size in 16ths,	21	22	23	24	25	26
Price per doz.,	42.24	44.16	46.08	48.00	50.40	52.80
Size in 16ths,	27	28	29	30	31	32
Price per doz.,	55.20	57.60	60.00	62.40	64.80	67.20

CARRIED IN STOCK: 4/16 to 32/16 by 16ths.

Fig. 320

Fig. 321

# Turned Shank Machine Bits



## STANDARD LIST

## PRICE, PER DOZEN

Size in	Length of Twist, Inches									
	STOCK SIZES				SPECIAL BITS					
	16s	6	8	10	12	14	16	18	20	24
STOCK SIZES	4	10.80	12.96	15.12	17.28	19.44	21.60	.....	.....	.....
	5	10.80	12.96	15.12	17.28	19.44	21.60	.....	.....	.....
	6	10.80	12.96	15.12	17.28	19.44	21.60	.....	.....	.....
	7	10.80	12.96	15.12	17.28	19.44	21.60	.....	.....	.....
	8	10.80	12.96	15.12	17.28	19.44	21.60	23.76	25.92	.....
	9	12.00	14.40	16.80	19.20	21.60	24.00	26.40	28.80	.....
	10	13.20	15.84	18.48	21.12	23.76	26.40	29.04	31.68	36.96
	11	14.40	17.28	20.16	23.04	25.92	28.80	31.68	34.56	40.32
	12	15.60	18.72	21.84	24.96	28.08	31.20	34.32	37.44	43.68
	13	16.80	20.16	23.52	26.88	30.24	33.60	36.96	40.32	47.04
	14	18.00	21.60	25.20	28.80	32.40	36.00	39.60	43.20	50.40
	15	19.20	23.04	26.88	30.72	34.56	38.40	42.24	46.08	53.76
	16	20.40	24.48	28.56	32.64	36.72	40.80	44.88	48.96	57.12
	17	21.60	25.92	30.24	34.56	38.88	43.20	47.52	51.84	60.48
	18	22.80	27.36	31.92	36.48	41.04	45.60	50.16	54.72	63.84
	19	24.00	28.80	33.60	38.40	43.20	48.00	52.80	57.60	67.20
	20	25.20	30.24	35.28	40.32	45.36	50.40	55.44	60.48	70.56
	21	26.40	31.68	36.96	42.24	47.52	52.80	58.08	63.36	73.92
	22	27.60	33.12	38.64	44.16	49.68	55.20	60.72	66.24	77.28
	23	28.80	34.56	40.32	46.08	51.84	57.60	63.36	69.12	80.64
	24	30.00	36.00	42.00	48.00	54.00	60.00	66.00	72.00	84.00
	25	31.50	37.80	44.10	50.40	56.70	63.00	69.30	75.60	88.20
	26	33.00	39.60	46.20	52.80	59.40	66.00	72.60	79.20	92.40
	27	34.50	41.40	48.30	55.20	62.10	69.00	75.90	82.80	96.60
	28	36.00	43.20	50.40	57.60	64.80	72.00	79.20	86.40	100.00
	29	37.50	45.00	52.50	60.00	67.50	75.00	82.50	90.00	105.00
	30	39.00	46.80	54.60	62.40	70.20	78.00	85.80	93.60	109.20
	31	40.50	48.60	56.70	64.80	72.90	81.00	89.10	97.20	113.40
	32	42.00	50.40	58.80	67.20	75.60	84.00	92.40	100.80	117.60

The stock sizes shown above in bold faced type are 4/16th to 32/16ths only, according to Fig. Nos., in lengths of twists up to and including 12 inch only. All other sizes and lengths of twist shown above are special bits not carried in stock.

Standard shank for machine bits, up to and including 12-inch twist 2 inches long by ½ inch in diameter. On bits with shanks larger than outlined above and on machine bits with twist over 12 inches long, special prices are made.

Price will be quoted on sizes above 32/16ths.

Prices on Application.

Made to Order.

Not Carried in Stock.

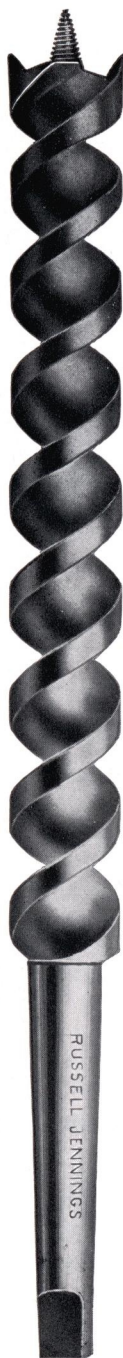


Fig. 327  
Morse Turned  
Taper Shank

## ON SPECIAL ORDER ONLY

These bits are special and made to order.

Prices on Application.

In ordering Countersinks be sure and state diameter and length of both twists, also length and diameter of shank.

It is not desirable nor practical to make the length of twists of Countersinks shorter than the diameter.

In the larger sizes it is best to make the twist longer than the diameter.

Prices on Application.

Made to Order.

Not Carried in Stock.



Fig. 328  
Counter Sink  
Bits





Fig. 329

## Bung-Boring Bits

Length of twist, 2 inches  
Turned Shank, 2 x  $\frac{3}{4}$  inches

### LIST PRICES

Fig. 329

Size in 16ths,	16	18	20	22
Price per doz.,	20.40	22.80	25.20	27.60
Size in 16ths,	24	26	28	30
Price per doz.,	30.00	33.00	36.00	39.00
Size in 16ths,	32	34	36	
Price per doz.,	42.00	45.60	49.20	

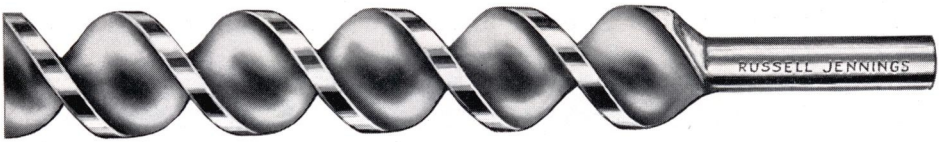
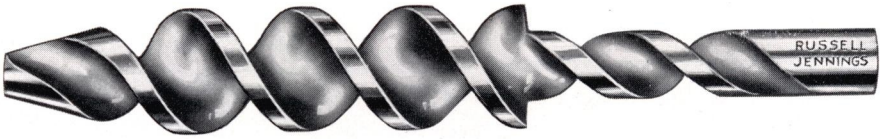
NOT CARRIED IN STOCK. Made to order.

List price of intermediate sizes the same as the next regular size larger.

The shanks of these bits are threaded to order. Be sure to state diameter of threaded portion, number of threads to the inch, and length of the shanks to be threaded.

Threading Shanks $\frac{3}{8}$ inches long.....	Net price per doz. \$1.50
Threading Shanks 1 inch long.....	Net price per doz. 3.00
Threading Shanks 1½ inches long.....	Net price per doz. 4.00
Threading Shanks 2 inches long.....	Net price per doz. 5.00

# Materials Conveyors



On special order, we make conveyors for elevating cement, powders and other materials. These conveyors are available in any size from  $\frac{1}{16}$ " to  $\frac{3}{16}$ ".

Two Russell Jennings Materials Conveyors are shown on this page as examples of workmanship. Any type of end or connection may be had, and practically any pitch.

If you will send us a blue print of the conveyor you desire, being sure that it contains complete dimensions, we will be glad to quote promptly on whatever quantity you may wish.

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# Memos

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